#### Indiana State Department of Health Long Term Care 2004 County Statistical Profile and 2008 Bed Needs Assessment

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#### **Introduction**

The Indiana State Department of Health (ISDH) is required by Indiana Code § 16-30-2 to identify and assess the health needs of the citizens and communities of Indiana. The ISDH completes an annual health needs assessment report to identify and assess the need for additional comprehensive care beds at Indiana health facilities. In preparation of this report, the ISDH requests licensed comprehensive care facilities to identify the number of beds and number of residents in the facility during in the year, the number of resident days, and the admissions and discharges to and from the facility. The following is the county statistical profile for calendar year 2004 and the bed needs assessment report for the number of needed comprehensive care beds in 2008.

#### Summary of Characteristics of Comprehensive Care Facilities in Indiana

- A. On December 31, 2004, there were 520 licensed comprehensive care facilities in Indiana. There were comprehensive care facilities in every county in Indiana ranging from a low of one facility in ten separate counties to a high of 53 facilities in Marion County. In 2004, there were 11 facilities that closed and three facilities that opened.
- B. On December 31, 2004, there were a total of 50,361 comprehensive care facility beds in Indiana. The average number of beds per facility was 97 beds (see Table A).
- C. On December 31, 2004, the facilities had an overall occupancy rate of 82.08 percent for the 50,361 comprehensive care beds. Table B shows changes in the number of comprehensive care beds and occupancy rate from 1990 to 2004 (see Table B).
- D. On December 31, 2004, out of the 92 counties in Indiana, the total occupancy rate was as follows:
  - 6 counties were above 90 percent,
  - 21 counties were between 89 and 86 percent range,
  - 29 counties between 85 and 80 percent range,

- 27 counties were in the 70 percent range, and
- 9 counties were below the 70 percent range (See Appendix A).

# TABLE A CHARACTERISTICS OF COMPREHENSIVE CARE FACILITIES INDIANA, 2004

Number of Comprehensive Care Facilities	520
Number Of Counties In Indiana	92
Comprehensive Care Beds In Indiana	50,361
Average Beds Per Facility	97
2004 Occupancy Rate	82.08%

TABLE B OCCUPANCY RATE FOR COMPREHENSIVE CARE BEDS INDIANA 1990, 1997-2004

YEAR	NUMBER OF	OCCUPANCY RATE OF
	COMPREHENSIVE CARE	COMPREHENSIVE CARE
	BEDS	BEDS
1990	55,341	81.51%
1997	57,640	75.49%
1998	57,995	77.77%
1999	58,097	75.83%
2000	57,520	73.57%
2001	55,334	75.90%
2002	52,775	80.07%
2003	50,906	80.88%
2004	50,361	82.08%

#### **Resident Age and Gender Characteristics**

For 2004, a majority of residents in comprehensive care facilities were female and over the age of 75 years (See Table C and Appendix B).

#### TABLE C RESIDENT CHARACTERISTICS COMPREHENSIVE CARE FACILITIES INDIANA 2004

CHARACTERISTICS	NUMBER OF	PERCENTAGE OF
	RESIDENTS	RESIDENTS
Under 65 Years	5,671	11.57%
65 to 74 Years	7,019	14.32%
75 to 84 Years	16.824	34.34%
85 + Years	19,481	39.77%
Total Residents	48,995	100.00%
Females	34,260	69.92%

#### **Resident Days by Payor Group**

One fourth of the comprehensive care residents had commercial insurance or private pay to cover needed expenses. Over one half of the residents used Medicaid insurance to cover expenses (See Table D).

TABLE D NUMBER OF RESIDENT DAYS BY PAYOR GROUP, INDIANA, 2004

PAYOR GROUP	NUMBER OF RESIDENT	PERCENT OF TOTAL
	DAYS	
Medicare	2,041,668	13.53%
Medicaid	9,331,924	61.83%
Other	504,878	3.34%
Private Pay	3,215,460	21.30%
Total	15,093,930	100.00%

#### **Resident Admission and Discharge Patterns**

In 2004, the majority of health facility residents were admitted to the comprehensive care health facility after a hospital stay. The most common discharges were to home or family, a hospital, or a result of death (see Tables E and F).

#### TABLE E ADMISSION PATTERNS COMPREHENSIVE CARE FACILITIES INDIANA 2004

ADMISSIONS TO	TOTAL RESIDENTS	PERCENT OF
SOURCE OF REFERRALS		ADMISSIONS
from Self Care or Family	11,816	17.5%
from Hospital	45,570	67.3%
from Mental Health Center	583	0.9%
from Home Health Agency	3,321	4.9%
from Another Nursing Home	3,730	5.5%
from Another Source	2,679	3.9%
Total Admissions	67,699	100.0%

#### TABLE F DISCHARGE PATTERNS COMPREHENSIVE CARE FACILITIES INDIANA 2004

DISCHARGES FROM	TOTAL RESIDENTS	PERCENT OF
	TOTAL RESIDENTS	
COMPREHENSIVE CARE		DISCHARGES
FACILITIES		
to Self Care or Family	21,706	32.6%
to Hospital	13,240	19.9%
to Mental Health Center	359	0.5%
to Another Nursing Home	5,877	8.8%
Death	15,732	23.6%
to Another Source	3,499	5.3%
to Home Health Agency	6,167	9.3%
Total Discharges	66,543	100.0%

#### **New and Closed Facilities**

Table G identifies the number of comprehensive care facilities and beds that have opened and closed since 1999.

TABLE G NUMBER OF NEW AND CLOSED FACILITIES SINCE 1999

	CLOSED FACILITIES		NEW FACILITIES	
YEAR	# FACILITIES	# BEDS	# FACILITIES	# BEDS
1999	13	564	12	897
2000	12	594	9	648
2001	25	1,550	4	212
2002	17	1,147	5	257
2003	29	1,404	5	249
2004	11	412	3	191

#### **Bed Needs Assessment**

Under Indiana Code § 16-30-2, the ISDH must assess the number of comprehensive care beds needed in the next four years. The bed needs assessment is limited in that the ISDH does not have the capacity to assess the range of all relevant factors. To calculate the bed needs assessment, the ISDH utilizes the following standard:

If the existing utilization rate for all comprehensive care beds in the county under consideration is less than ninety percent (90%) or if the addition of the proposed comprehensive care beds will reduce the existing utilization rate for all comprehensive care beds in the county of application below ninety percent (90%), there is a presumption that the certification of the beds is not necessary.

In the development of the long-term care bed needs projections, 2004 statistics by county were sorted by four different age cohorts (less than 65 years, 65-74 years, 75-84 years, and over 85 years). Definitions of terms can be seen in Appendix C.

Long term care bed needs projections use the following formula (see Table H). Each formula involves the separate calculation of Average Daily Census (ADC) by the four age cohorts and the summation of ADC. Population projections were based on the 2000 US Census and IU Indiana Business Research Center's 2005 projections. ISDH staff projected the 2004 and 2008 projections based on annual percent changes between the 2000 and 2005 statistics.

## TABLE H FORMULA FOR DETERMINING COMPREHENSIVE CARE BED NEEDS

STEP	FORMULA	RESULTS
1.	2004 Bed Totals by Certification Category	2004 Bed Inventory
2.	2004 Actual Resident Days	2004 Occupancy Rate
	Potential Resident Days (beds times 365)	
3.	2004 Resident Days in each age cohort	2004 Use Rate (ADC)
	divided by Number of Days in Year	
	2004 County Population in each age cohort	
4.	2004 Use Rates (ADC) multiplied by Year	Year 2008 Projected ADC
	2008 Projected Populations in each age cohort	
5.	Projected ADC for all age cohorts	Year 2008 Bed Need *
	.90 (i.e. 90 percent occupancy rate)	
6.	2004 Bed Inventory subtracted from	Net Need
	Year 2008 Bed Need	for additional beds

Appendix A presents the bed needs assessment findings to include statistics of the occupancy rate, bed inventory, and projected need of each county. The final column of the findings shows the net need for beds. In cases where the county utilization rate is below 90 percent occupancy, the net need for beds is adjusted to zero. An asterisk (\*) in the net need for beds column indicates that the need was adjusted to zero because the county utilization rate was below 90 percent occupancy.

#### **Results of Bed Need Projections**

Based on the bed need assessment methodology, there is a need for 47,508 comprehensive care beds, if each county was at 90 percent occupancy. This varied by county (see Appendix A for detailed county results).

By the year 2008, it is projected that there will be a need for additional comprehensive care beds in five counties in Indiana. The bed need projection indicated that Crawford County would be in need of seven additional comprehensive care beds, Hendricks County would be in need of 159 additional comprehensive care beds, Martin County would be in need of six additional comprehensive care beds, Ohio County would be in need of seven additional comprehensive care beds, and Switzerland County would be in need of eleven additional comprehensive care beds by 2008.

# APPENDIX A NUMBER OF EXISTING COMPREHENSIVE CARE BEDS, NUMBER OF PROJECTED BEDS FOR 2008, AND OCCUPANCY RATE BY COUNTY

COUNTY	NUMBER OF COMP CARE FACILITIES	2004 OCCUPANCY RATE	2004 COMP BED TOTAL	YEAR 2008 PROJECTED NEED	NET NEED FOR BEDS
Adams	4	82.95%	379	340	0
Allen	27	79.94%	2,850	2,554	0
Bartholomew	6	82.54%	563	536	0
Benton	1	91.79%	64	63	0
Blackford	2	64.97%	136	104	0
Boone	6	75.60%	623	569	0
Brown	1	87.75%	108	113	0
Carroll	1	87.13%	82	83	0*
Cass	5	79.66%	399	351	0
Clark	9	81.56%	936	896	0
Clay	3	80.76%	235	205	0
Clinton	4	80.76%	390	344	0
Crawford	1	93.97%	78	85	7
Daviess	6	78.25%	429	378	0
Dearborn	4	86.77%	319	356	0*
Decatur	4	79.45%	258	232	0
Dekalb	4	89.70%	349	351	0*
Delaware	13	77.23%	1,186	1,045	0

APPENDIX A	YEAR 2008 NEED FOR COMPREHENSIVE CARE BEDS BY
	COUNTY

COUNTY	NUMBER OF COMP CARE FACILITIES	2004 OCCUPANCY RATE	2004 COMP BED TOTALS	YEAR 2008 PROJECTED NEED	NET NEED FOR BEDS
Dubois	9	80.34%	583	537	0
Elkhart	12	82.96%	1,377	1,284	0
Fayette	4	85.66%	340	336	0
Floyd	8	86.04%	1,002	1,015	0*
Fountain	2	53.16%	172	102	0
Franklin	2	70.38%	139	108	0
Fulton	2	76.61%	246	207	0
Gibson	5	75.80%	394	338	0
Grant	6	85.89%	719	707	0
Greene	4	86.26%	344	342	0
Hamilton	9	77.92%	905	937	0*
Hancock	5	81.71%	492	508	0*
Harrison	3	83.34%	270	259	0
Hendricks	5	92.54%	705	864	159
Henry	5	76.49%	422	365	0
Howard	7	79.86%	732	678	0
Huntington	6	79.83%	526	455	0
Jackson	4	85.47%	366	349	0
Jasper	2	85.85%	198	199	0

COUNTY	NUMBER OF COMP CARE FACILITIES	2004 OCCUPANCY RATE	2004 COMP BED TOTAL	YEAR 2008 PROJECTED NEED	NET NEED FOR BEDS
Jay	2	85.72%	155	153	0
Jefferson	5	67.87%	336	265	0
Jennings	1	86.83%	120	119	0
Johnson	9	84.98%	979	1,046	0*
Knox	7	69.78%	613	472	0
Kosciusko	5	86.52%	438	441	0*
LaGrange	2	79.62%	200	168	0
Lake	25	86.94%	2,879	2,897	0*
LaPorte	6	87.62%	647	637	0
Lawrence	6	68.94%	677	533	0
Madison	14	80.98%	1,193	1,111	0
Marion	53	86.38%	5,793	5,576	0
Marshall	6	82.92%	522	481	0
Martin	1	95.80%	62	68	6

COUNTY	NUMBER OF COMP CARE FACILITIES	2004 OCCUPANCY RATE	2004 COMP BED TOTAL	YEAR 2008 PROJECTED NEED	NET NEED FOR BEDS
Miami	4	74.81%	278	240	0
Monroe	6	87.40%	616	632	0*
Montgomery	5	87.29%	361	359	0
Morgan	4	68.68%	330	272	0
Newton	2	73.42%	163	137	0
Noble	4	85.45%	324	313	0*
Ohio	1	95.91%	54	61	7
Orange	3	86.45%	224	220	0
Owen	3	80.32%	267	238	0
Parke	2	77.17%	113	97	0
Perry	2	87.08%	184	180	0
Pike	2	84.11%	150	146	0
Porter	8	79.21%	951	920	0
Posey	3	81.96%	205	192	0
Pulaski	3	87.43%	141	143	0*

COUNTY	NUMBER OF COMP CARE FACILITIES	2004 OCCUPANCY RATE	2004 COMP BED TOTAL	YEAR 2008 PROJECTED NEED	NET NEED FOR BEDS
Putnam	4	61.62%	279	190	0
Randolph	3	77.73%	202	170	0
Ripley	5	71.83%	310	249	0
Rush	2	80.92%	178	157	0
Scott	3	69.36%	205	171	0
Shelby	6	78.10%	593	506	0
Spencer	2	82.08%	118	110	0
St. Joseph	16	83.80%	1,827	1,680	0
Starke	3	76.42%	290	244	0
Steuben	2	87.18%	163	151	0
Sullivan	2	86.28%	149	146	0
Switzerland	1	96.46%	84	95	11
Tippecanoe	10	78.28%	1,285	1,194	0
Tipton	2	84.15%	159	155	0
Union	1	72.49%	60	47	0

COUNTY	NUMBER OF COMP CARE FACILITIES	2004 OCCUPANCY RATE	2004 COMP BED TOTAL	YEAR 2008 PROJECTED NEED	NET NEED FOR BEDS
Vanderburgh	17	84.61%	1,782	1,687	0
Vermillion	2	89.04%	208	201	12
Vigo	9	88.09%	944	948	0*
Wabash	8	80.93%	649	626	0
Warren	1	73.89%	92	79	0
Warrick	7	88.25%	646	679	0*
Washington	2	83.07%	212	205	0
Wayne	7	78.93%	757	666	0
Wells	6	77.35%	403	362	0
White	2	69.24%	281	217	0
Whitley	2	83.39%	174	170	10
STATE	520	82.08%	50,361	47,508	0

# APPENDIX B PERCENT OF AGE AND GENDER DISTRIBUTION BY COUNTY INDIANA COMPREHENSIVE CARE FACILLTIES, 2004

	#	% < 65	%	%	%	%
COUNTY	RESI-	YRS	65–74	75-84	85 +	FEMALE
	DENTS		YRS	YRS	YRS	
Adams	309	4.53%	8.09%	33.66%	53.72%	76.05%
Allen	2,696	12.95%	15.06%	32.53%	39.47%	68.29%
Bartholomew	463	11.66%	16.85%	41.25%	30.24%	74.51%
Benton	55	3.64%	14.55%	34.55%	47.27%	76.36%
Blackford	84	15.48%	9.52%	28.57%	46.43%	80.95%
Boone	478	5.65%	21.55%	49.16%	23.64%	66.95%
Brown	103	13.59%	14.56%	26.21%	45.63%	79.61%
Carroll	72	4.17%	6.94%	41.67%	47.22%	81.94%
Cass	599	18.20%	13.02%	38.23%	30.55%	68.28%
Clark	773	19.66%	19.53%	27.36%	33.12	71.02%
Clay	197	6.09%	9.64%	42.13%	42.13%	78.17%
Clinton	317	3.47%	17.98%	45.74%	32.81%	62.78%
Crawford	75	36.00%	14.67%	32.00%	17.33%	53.33%
Daviess	372	15.59%	19.35%	27.96%	37.10%	72.03%
Dearborn	623	11.08%	19.74%	34.83%	34.35%	69.82%
Decatur	262	11.46%	14.89%	27.86%	45.80%	69.85%
Dekalb	302	9.27%	10.26%	33.11%	47.35%	73.51%
Delaware	954	13.84%	15.83%	33.02%	37.32%	67.88%
Dubois	1,115	16.50%	19.19%	33.70%	31.03%	67.35%
Elkhart	1,200	11.17%	13.58%	31.67%	43.58%	67.44%
Fayette	314	9.24%	12.10%	34.08%	44.59%	73.72%
Floyd	875	9.71%	12.34%	37.94%	40.00%	72.34%
Fountain	168	7.14%	8.33%	30.95%	53.57%	75.60%
Franklin	122	10.66%	18.85%	28.69%	41.80%	65.57%
Fulton	233	9.87%	9.87%	36.48%	43.78%	70.39%
Gibson	327	3.67%	11.01%	34.28%	34.95%	72.17%
Grant	590	13.90%	17.46%	34.07%	34.58%	65.38%
Greene	303	9.57%	14.19%	34.65%	41.58%	74.26%
Hamilton	738	7.86%	15.18%	37.94%	39.02%	74.66%
Hancock	550	10.36%	12.00%	31.09%	46.55%	67.27%
Harrison	173	9.83%	11.56%	37.57%	41.04%	72.83%
Hendricks	656	5.03%	16.01%	44.36%	34.60%	75.76%
Henry	364	5.22%	13.74%	31.87%	49.18%	79.40%
Howard	1,086	11.79%	15.29%	34.35%	38.58%	63.17%
Huntington	433	6.24%	10.16%	28.41%	55.20%	75.98%
Jackson	318	9.75%	18.55%	33.02%	38.68%	81.13%

#### APPENDIX B: PERCENT OF AGE AND GENDER DISTRIBUTION BY COUNTY

COUNTY	# RESI-	%	%	%	%	%
	DENTS	< 65YRS	64-74	75-84	85+YRS	FEMALE
			YRS	YRS		
Jasper	172	6.98%	6.40%	33.14%	53.49%	76.16%
Jay	136	5.15%	8.82%	28.68%	57.35%	73.53%
Jefferson	275	11.64%	15.64%	36.00%	36.73%	70.55%
Jennings	108	12.04%	10.19%	39.81%	37.96%	70.37%
Johnson	841	7.25%	10.23%	29.13%	53.39%	75.98%
Knox	496	9.07%	12.30%	37.10%	41.53%	73.59%
Kosciusko	388	3.87%	13.66%	30.41%	52.06%	71.10%
LaGrange	247	9.31%	10.53%	38.06%	42.11%	66.80%
Lake	4,254	16.43%	18.29%	33.17%	32.11%	66.41%
LaPorte	577	8.32%	13.00%	36.92%	41.77%	75.67%
Lawrence	634	17.67%	10.25%	33.60%	38.49%	63.88%
Madison	1,002	10.88%	13.37%	31.94%	43.81%	75.05%
Marion	5,134	13.95%	14.96%	35.55%	35.55%	69.66%
Marshall	484	8.26%	9.30%	28.31%	54.13%	73.76%
Martin	90	4.44%	6.67%	43.33%	45.56%	67.78%
Miami	278	8.27%	14.03%	42.45%	35.25%	60.67%
Monroe	584	6.34%	9.76%	33.73%	50.17%	75.68%
Montgomery	316	12.34%	12.34%	31.65%	43.67%	69.36%
Morgan	287	7.32%	11.85%	40.42%	40.42%	77.00%
Newton	120	10.83%	11.67%	26.67%	50.83%	71.67%
Noble	285	7.37%	9.12%	28.42%	55.09%	77.19%
Ohio	54	18.52%	14.81%	27.78%	38.89%	72.22%
Orange	212	15.09%	13.21%	34.43%	37.26%	67.92%
Owen	370	9.73%	11.35%	34.32%	44.59%	76.49%
Parke	86	37.21%	24.42%	22.09%	16.28%	58.14%
Perry	168	5.95%	11.09%	38.69%	43.45%	73.81%
Pike	130	5.38%	9.23%	33.85%	51.54%	70.77%
Porter	1,052	10.65%	11.79%	32.98%	44.58%	72.77%
Posey	163	7.36%	8.59%	40.49%	43.56%	73.62%
Pulaski	167	5.99%	10.18%	38.32%	45.51%	74.25%
Putnam	313	4.47%	5.75%	32.27%	57.51%	73.80%
Randolph	174	6.90%	13.79%	32.76%	46.55%	72.41%
Ripley	274	7.66%	10.95%	27.74%	53.65%	69.71%
Rush	143	6.29%	11.89%	38.46%	43.36%	73.97%
Scott	212	14.15%	17.45%	38.68%	29.72%	69.91%
Shelby	431	29.93%	8.35%	21.11%	40.60%	68.68%

#### APPENDIX B: AGE AND GENDER DISTRIBUTION BY COUNTY

COUNTY	# RESI-	%	%	%	%	%
	DENTS	< 65	65–74 YRS	75-84	85+	FEMALE
		YRS		YRS	YRS	
Spencer	93	18.28%	11.83%	36.56%	33.33%	62.37%
St. Joseph	1,885	8.17%	17.61%	33.58%	40.64%	70.47%
Starke	272	28.68%	14.71%	28.31%	28.31%	69.12%
Steuben	144	3.47%	6.25%	37.50%	52.78%	79.17%
Sullivan	133	6.02%	15.79%	28.57%	49.62%	74.44%
Switzerland	70	25.71%	12.86%	25.71%	35.71%	64.29%
Tippecanoe	1,239	7.91%	12.67%	38.34%	41.08%	62.98%
Tipton	455	1.10%	2.42%	78.68%	17.80%	23.96%
Union	45	8.89%	22.22%	37.78%	31.11%	84.44%
Vanderburgh	1,687	10.55%	22.58%	31.42%	35.45%	64.97%
Vermillion	200	8.00%	9.00%	33.00%	50.00%	77.00%
Vigo	921	10.53%	12.16%	32.25%	45.06%	75.67%
Wabash	565	23.89%	7.96%	28.14%	40.00%	67.79%
Warren	79	26.58%	17.72%	29.11%	26.58%	67.09%
Warrick	673	7.73%	9.96%	32.99%	49.33%	76.58%
Washington	191	19.37%	17.28%	31.41%	31.94%	77.78%
Wayne	716	9.5%	13.69%	36.59%	40.22%	73.27%
Wells	323	7.12%	9.29%	34.67%	48.92%	77.01%
White	200	4.00%	8.50%	38.50%	49.00%	78.50%
Whitley	147	4.76%	12.24%	36.05%	46.94%	74.83%
STATE	50,801	11.48%	14.48%	34.49%	39.55%	69.92%

### APPENDIX C DEFINITION OF TERMS

This document is based on annual questionnaires of comprehensive care facilities for utilization as of December 31, 2004. Results include utilization of private pay units and units certified for Medicare and Medicaid. The document is required by Indiana Code § 16-30-2-4.

For the purpose of this document, the following definitions are used:

#### Methodology Terminology

- 1. Age Cohort is the grouping of the population of the State into distinct groups for age-specific analysis. In this report, the age cohorts used were the under-65-year-old population, 65-74 years, 75-84 years, and the 85 years and older population for 2004 and 2008.
- 2. <u>Average Daily Census</u> (ADC) is the average number of residents in the facility or unit, calculated by dividing the number of resident days during a given period by the potential number of days in the same period. In this report, the formula for calculating the average daily census is resident days for all facilities in the county/365 days in 2004.
- 3. Resident Days is the total number of institutional days spent in the facility by all residents of a given care services category for a given time period. In this report, resident days reflect the resident days in all facilities in a specific county in 2004. One bed hold day is equal to one resident day.
- 4. Occupancy rate is the percent of beds by resident care services category filled on an average day in a given time period. In this report, resident days for all facilities in a county in 2004, times 100, divided by potential resident days.
- 5. <u>Inventory Database</u>. This report and the utilization database is based on the 2004 Annual Report of Long Term Care Facilities. The annual questionnaire is completed by licensed comprehensive care facilities in Indiana and is required by 410 IAC 16.2-3.1-13(0). The inventory data is maintained by the Long Term Care Division based on all licensed action taken through December 2004.

#### Long Term Bed Terminology

- 1. <u>Comprehensive Care Beds</u> are beds in a comprehensive care facility. A comprehensive care facility means a health facility that provides nursing care, room, food, laundry, administration of medications, special diets and treatments, and that may provide rehabilitative and restorative therapies under the order of an attending physician.
- 2. <u>Certified Bed</u> means a bed in a comprehensive care facility which is certified for participation in the Medicare and/or Medicaid program.